ABSTRACT OF THE DISCLOSURE

A magnetic recording medium including at least one Cu-containing magnetic recording layer (CuML) comprised of a Cu-containing magnetic alloy material selected from the group consisting of:

- (a) a CoCrPtBCu alloy having a composition represented by the formula $Co_{100-x-y-z-\alpha}Cr_xPt_yB_zCu_\alpha$, wherein $0 < x \le 20$, $0 < y \le 30$, $0 < z \le 24$, and $0 < \alpha \le 10$;
- (b) a CoCrPtBCu alloy having a composition represented by the formula $Co_{100-x-y-z-\alpha} Cr_x Pt_y B_z Cu_\alpha$, wherein $0 < x \le 30$, $0 < y \le 30$, $7 < z \le 24$, and $0 < \alpha \le 10$; and
- (c) a CoCrTaCu alloy having a composition represented by the formula $Co_{100-x-y}$. ${}_{\alpha}Cr_{x}$ $Ta_{y}Cu_{\alpha}$, containing less than 30 at. % Cr, up to 8 at. % Ta, and up to 10 at. % Cu.